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<140> US 09/581,422

<141> 2001-11-20

<150> PCT/EP98/08557

<151> 1998-12-14

<150> EP 97 403 050.4

<151> 1997-12-15

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<170> PatentIn version 3.1

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agaaagtgag tcacttaagt ttttgggtcta ctagcattat aaactgccag ctgtccgatt      300
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cctatctgaa ttgactctag tgtaccaagg ggagatgaca acttttagcta tacaagtga      180
attaacctga ttttttcctc cactagggat caagacagaa gggttgtacc gcactgtggg      240
cagcaatatt caggttcaga agctgctgaa tgcctttttt ggtaacaatt tcactttgat      300
aattcttatt gggagtactt tatgtgttac aaagaaatgt gactggaaga gaaaggagac      360
actgctaaaa tgtggtagaa tagttgaaaa aagtattttc taaagtaaaa catacacata      420
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ttttgaaata tcaaagattt gcttcttcta aagttttgat ntcttaaaaa ctacttaggg	180
tnatatactt tgtttttctt ttaaaagagg gaaaatgtaa gatttttttg atgattaact	240
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ctgatttgaa ttgggagttt gcttttcata gctggtgaaa tttctctggg tggtgagcgg	420
agttaacgtg gtctcagttc caggagtttg gatacaattg cttaanaaaa aacatgtgaa	480
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ttntgggagc tagttggaga ccttgctaga gggctcagcc catgcttttg caggcttttt	180
gttgaattac tagcaacttg gattccctga cgaagcttca ggtgaagaga aaaatgtata	240
taatccact aagctgtagg gctcaggaac ttcagccttg ctgtcccag aactaagaat	300
ccaataccca gctgctttnt tcccaaagca actgacaatt ttcattcatt tcaggaatct	360
ttctgaacct gtcatgacct atagacttca caaagagctg gtctctgctg ccagtaagta	420

tttatgttac taattaactg tgtgtgccta gtttcttaat gtttactgca ataagcctag	480
aaaattgttt gaggggaagt gattgagggc acagaaacct aaaacacata cacaattat	540
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t	601

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gtcaagtaag taactgctgg attttcagaa aaagttccta ttagaggact ggcccatgtg	240
gttggtactac acagaaactg cctctcagct ctttcagccc cagcccttaa gtgcttcctt	300
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catgggagta atctttgggc ccaccctgat gagagctcag gaggacactg tggccgccat      180
gatgaacatc aaattccaga acatagtggg ggaaatacta atcgagcact ttggcaaggt      240
atgcattttc tattctcact acctgtcttc caaacatgtg acactttccc ccaactgcct      300
tttagtgctg tgtcttcctc cttggctcac gttgacagtg aaaggaaatc ccattatgac      360
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caaaccaatc acgatttcaa agcgcttgct gcgagaaagg acggttttct atactttctc	360
cctggatgaa agcgaaggtc agtactnagg ttctccttta gcttctgaat ggtgattaga	420
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ctagatgaaa tccaacatca aacaccgaat ggtactatca ccagcagcat agaaccccc	240
aagccaccac aacaccccaa actacctatt cagaggagtg gggaaactga tcctgggagg	300

aagtccecaa gcaggcctat tttggatggc aagttggagc cctgcccaga ggtggacgtg	360
gggaagttgg tgtctaggct gcaggatgga gggaccaaga tcaccccaaa ggccaccaat	420
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aatatgttcc agtttactac cactaatatt ggaacagtgg gcaagatcac aataatcagt	660
cacaataatc actagaatgt aagctccatg agggccggga ttttttacct gttttgttga	720
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aggcagactt cctggagatg aaagttgagg ctacaggtat gcagtcccca tccctgatta	180
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Asn Lys Phe Ile Lys Asp Val Ile Lys Asp Gly Asn Ala Leu Ile Ser
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Ala Met Arg Asn Tyr Ser Ser Ala Val Gln Lys Phe Ser Gln Thr Leu
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Gln Ser Phe Gln Phe Asp Phe Ile Gly Asp Thr Leu Thr Asp Asp Glu
65 70 75 80

Ile Asn Ile Ala Glu Ser Phe Lys Glu Phe Ala Glu Leu Leu Asn Glu
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Val Glu Asn Glu Arg Met Met Met Val His Asn Ala Ser Asp Leu Leu
100 105 110

Ile Lys Pro Leu Glu Asn Phe Arg Lys Glu Gln Ile Gly Phe Thr Lys
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Glu Arg Lys Lys Lys Phe Glu Leu Asp Gly Glu Arg Phe Tyr Ser Leu
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Leu Asp Arg His Leu His Leu Ser Ser Lys Lys Lys Glu Ser Gln Leu
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Gln Glu Ala Asp Leu Gln Val Asp Lys Glu Arg His Asn Phe Phe Glu
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Ser Ser Leu Asp Tyr Val Tyr Gln Ile Gln Glu Val Gln Glu Ser Lys
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Lys Phe Asn Ile Val Glu Pro Val Leu Ala Phe Leu His Ser Leu Phe
195 200 205

Ile Ser Asn Ser Leu Thr Val Glu Leu Thr Gln Asp Phe Leu Pro Tyr
210 215 220

Lys Gln Gln Leu Gln Leu Ser Leu Gln Asn Thr Arg Asn His Pro Ser
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Ser Thr Arg Glu Glu Met Glu Glu Leu Lys Lys Arg Met Lys Glu Ala
245 250 255

Pro Gln Thr Cys Lys Leu Pro Gly Gln Pro Thr Ile Glu Gly Tyr Leu
260 265 270

Tyr Thr Gln Glu Lys Trp Ala Leu Gly Ile Ser Trp Val Lys Tyr Tyr
275 280 285

Cys Gln Tyr Glu Lys Trp Thr Lys Thr Leu Thr Met Thr Pro Met Glu
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Gln Lys Pro Gly Ala Leu Gln Gly Pro Leu Asp Leu Thr Leu Lys Tyr
305 310 315 320

Cys Val Arg Arg Lys Thr Glu Ser Ile Asp Lys Arg Phe Cys Phe Asp
325 330 335

Ile Glu Thr Asn Glu Arg Pro Gly Thr Ile Thr Leu Gln Ala Leu Ser
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Glu Ala Asn Arg Arg Leu Trp Met Glu Ala Met Asp Gly Lys Glu Pro
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Ile Tyr His Ser Pro Ile Thr Lys Gln Gln Glu Met Glu Leu Asn Glu
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Val Gly Phe Lys Phe Val Arg Lys Cys Ile Asn Ile Ile Glu Thr Lys
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Gly Ile Lys Thr Glu Gly Leu Tyr Arg Thr Val Gly Ser Asn Ile Gln
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Val Gln Lys Leu Leu Asn Ala Phe Phe Asp Pro Lys Cys Pro Gly Asp
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Val Asp Phe His Asn Ser Asp Trp Asp Ile Lys Thr Ile Thr Ser Ser
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Leu His Lys Glu Leu Val Ser Ala Ala Lys Ser Asp Asn Leu Asp Tyr

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			500					505					510		
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Ile	Leu	Asp	Gly	Lys	Leu	Glu	Pro	Cys	Pro	Glu	Val	Asp	Val	Gly	Lys
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Leu	Val	Ser	Arg	Leu	Gln	Asp	Gly	Gly	Thr	Lys	Ile	Thr	Pro	Lys	Ala
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Thr	Asn	Gly	Pro	Met	Pro	Gly	Ser	Gly	Pro	Thr	Lys	Thr	Pro	Ser	Phe
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His Ile Lys Arg Pro Ala Pro Arg Pro Leu Ala His His Leu Glu Gly
705 710 715 720

Asp Ala Asp Ser Phe Ser Lys Val Arg Pro Pro Gly Glu Lys Pro Thr
725 730 735

Ile Ile Arg Pro Pro Val Arg Pro Pro Asp Pro Pro Cys Arg Ala Ala
740 745 750

Thr Pro Gln Lys Pro Glu Pro Lys Pro Asp Ile Val Ala Gly Asn Ala
755 760 765

Gly Glu Ile Thr Ser Ser Val Val Ala Ser Arg Thr Arg Phe Phe Glu
770 775 780

Thr Ala Ser Arg Lys Thr Gly Ser Ser Gln Gly Arg Leu Pro Gly Asp
785 790 795 800

Glu Ser